

PCT09

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/979,588

DATE: 12/04/2001
 TIME: 11:52:58

Input Set : A:\seqlist.txt
 Output Set: N:\CRF3\11212001\I979588.raw

p.5

2 <110> APPLICANT: Bolger, Graeme B.
 3 Houslay, Miles D.
 4 Steele, Michael R.
 5 Yarwood, Stephen J.
 7 <120> TITLE OF INVENTION: Interaction of the Cyclic-AMP-Specific
 8 Phosphodiesterase PDE4D5 with RACK1
 10 <130> FILE REFERENCE: T9046.PCT
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/979,588
 C--> 14 <141> CURRENT FILING DATE: 2001-11-16
 16 <150> PRIOR APPLICATION NUMBER: US 60/135,035
 18 <151> PRIOR FILING DATE: 1999-05-20
 20 <160> NUMBER OF SEQ ID NOS: 51
 22 <170> SOFTWARE: WordPerfect 8.0
 24 <210> SEQ ID NO: 1
 26 <211> LENGTH: 88
 28 <212> TYPE: PRT
 30 <213> ORGANISM: Homo sapiens
 32 <400> SEQUENCE: 1
 34 Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
 35 1 5 10 15
 37 Asp Asn Pro His Cys Pro Asn Pro Trp Leu Asn Glu Asp Leu Val
 38 20 25 30
 40 Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
 41 35 40 45
 43 Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
 44 50 55 60
 46 Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
 47 65 70 75
 49 Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
 50 80 85
 52 <210> SEQ ID NO: 2
 54 <211> LENGTH: 88
 56 <212> TYPE: PRT
 58 <213> ORGANISM: Homo sapiens
 60 <400> SEQUENCE: 2
 62 Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Ala Pro Glu Val
 63 1 5 10 15
 65 Asp Asn Pro His Cys Pro Asn Pro Trp Leu Asn Glu Asp Leu Val
 66 20 25 30
 68 Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
 69 35 40 45
 71 Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
 72 50 55 60
 74 Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
 75 65 70 75
 77 Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
 78 80 85

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/979,588

DATE: 12/04/2001
TIME: 11:52:58

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\11212001\I979588.raw

80 <210> SEQ ID NO: 3
82 <211> LENGTH: 88
84 <212> TYPE: PRT
86 <213> ORGANISM: Homo sapiens
88 <400> SEQUENCE: 3
90 Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
91 1 5 10 15
93 Asp Ala Pro His Cys Pro Asn Pro Trp Leu Asn Glu Asp Leu Val
94 20 25 30
96 Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
97 35 40 45
99 Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
100 50 55 60
102 Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
103 65 70 75
105 Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
106 80 85
108 <210> SEQ ID NO: 4
110 <211> LENGTH: 88
112 <212> TYPE: PRT
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 4
118 Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
119 1 5 10 15
121 Asp Asn Ala His Cys Pro Asn Pro Trp Leu Asn Glu Asp Leu Val
122 20 25 30
124 Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
125 35 40 45
127 Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
128 50 55 60
130 Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
131 65 70 75
133 Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
134 80 85
136 <210> SEQ ID NO: 5
138 <211> LENGTH: 88
140 <212> TYPE: PRT
142 <213> ORGANISM: Homo sapiens
144 <400> SEQUENCE: 5
146 Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
147 1 5 10 15
149 Asp Asn Pro His Cys Ala Asn Pro Trp Leu Asn Glu Asp Leu Val
150 20 25 30
152 Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
153 35 40 45
155 Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
156 50 55 60
158 Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
159 65 70 75

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/979,588

DATE: 12/04/2001
TIME: 11:52:58

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\11212001\I979588.raw

```

161      Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
162                      80                  85
164 <210> SEQ ID NO: 6
166 <211> LENGTH: 88
168 <212> TYPE: PRT
170 <213> ORGANISM: Homo sapiens
172 <400> SEQUENCE: 6
174      Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
175          1           5           10          15
177      Asp Asn Pro His Cys Pro Ala Pro Trp Leu Asn Glu Asp Leu Val
178          20          25          30
180      Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
181          35          40          45
183      Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
184          50          55          60
186      Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
187          65          70          75
189      Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
190                      80                  85
192 <210> SEQ ID NO: 7
194 <211> LENGTH: 88
196 <212> TYPE: PRT
198 <213> ORGANISM: Homo sapiens
200 <400> SEQUENCE: 7
202      Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
203          1           5           10          15
205      Asp Asn Pro His Cys Pro Asn Ala Trp Leu Asn Glu Asp Leu Val
206          20          25          30
208      Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
209          35          40          45
211      Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
212          50          55          60
214      Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
215          65          70          75
217      Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
218                      80                  85
220 <210> SEQ ID NO: 8
222 <211> LENGTH: 88
224 <212> TYPE: PRT
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 8
230      Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
231          1           5           10          15
233      Asp Asn Pro His Cys Pro Asn Pro Ala Leu Asn Glu Asp Leu Val
234          20          25          30
236      Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
237          35          40          45
239      Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
240          50          55          60

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/979,588

DATE: 12/04/2001

TIME: 11:52:58

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I979588.raw

242 Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
 243 65 70 75
 245 Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
 246 80 85
 248 <210> SEQ ID NO: 9
 250 <211> LENGTH: 88
 252 <212> TYPE: PRT
 254 <213> ORGANISM: Homo sapiens
 256 <400> SEQUENCE: 9
 258 Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
 259 1 5 10 15
 261 Asp Asn Pro His Cys Pro Asn Pro Trp Ala Asn Glu Asp Leu Val
 262 20 25 30
 264 Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
 265 35 40 45
 267 Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
 268 50 55 60
 270 Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
 271 65 70 75
 273 Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
 274 80 85
 276 <210> SEQ ID NO: 10
 278 <211> LENGTH: 88
 280 <212> TYPE: PRT
 282 <213> ORGANISM: Homo sapiens
 284 <400> SEQUENCE: 10
 286 Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
 287 1 5 10 15
 289 Asp Asn Pro His Cys Pro Asn Pro Trp Leu Ala Glu Asp Leu Val
 290 20 25 30
 292 Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
 293 35 40 45
 295 Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
 296 50 55 60
 298 Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
 299 65 70 75
 301 Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
 302 80 85
 304 <210> SEQ ID NO: 11
 306 <211> LENGTH: 88
 308 <212> TYPE: PRT
 310 <213> ORGANISM: Homo sapiens
 312 <400> SEQUENCE: 11
 314 Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val
 315 1 5 10 15
 317 Asp Asn Pro His Cys Pro Asn Pro Trp Leu Asn Ala Asp Leu Val
 318 20 25 30
 320 Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr
 321 35 40 45

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/979,588

DATE: 12/04/2001

TIME: 11:52:58

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I979588.raw

323 Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro
 324 50 55 60
 326 Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn
 327 65 70 75
 329 Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
 330 80 85
 332 <210> SEQ ID NO: 12
 334 <211> LENGTH: 77
 336 <212> TYPE: PRT
 338 <213> ORGANISM: Homo sapiens
 340 <400> SEQUENCE: 12
 342 Val Pro Glu Val Asp Asn Pro His Cys Pro Asn Pro Trp Leu Asn
 343 1 5 10 15
 345 Glu Asp Leu Val Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu
 346 20 25 30
 348 Lys Ser Lys Thr Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro
 349 35 40 45
 351 Val Ile Ser Pro Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu
 352 50 55 60
 354 Leu Ser Ser Asn Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His
 355 65 70 75
 357 Thr Cys
 359 <210> SEQ ID NO: 13
 361 <211> LENGTH: 59
 363 <212> TYPE: PRT
 365 <213> ORGANISM: Homo sapiens
 367 <400> SEQUENCE: 13
 369 Val Lys Ser Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys
 370 1 5 10 15
 372 Thr Ala Arg Lys Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser
 373 20 25 30
 375 Pro Arg Asn Ser Pro Arg Leu Leu Arg Arg Met Leu Leu Ser Ser
 376 35 40 45
 378 Asn Ile Pro Lys Gln Arg Arg Phe Thr Val Ala His Thr Cys
 379 50 55
 381 <210> SEQ ID NO: 14
 383 <211> LENGTH: 39
 385 <212> TYPE: PRT
 387 <213> ORGANISM: Homo sapiens
 389 <400> SEQUENCE: 14
 391 Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro Arg Asn Ser Pro
 392 1 5 10 15
 394 Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn Ile Pro Lys Gln
 395 20 25 30
 397 Arg Arg Phe Thr Val Ala His Thr Cys
 398 35
 400 <210> SEQ ID NO: 15
 402 <211> LENGTH: 19
 404 <212> TYPE: PRT

→ Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/979,588

DATE: 12/04/2001

TIME: 11:52:59

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I979588.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51